

Why?

- Our vision in science is to encourage curiosity in children so that they ask questions that fuel explorations and investigations about the universe we live in.
- Science knowledge and understanding is important so that we understand and can question the world around us.
- Science can contribute to other areas of the curriculum, such as through topic, numeracy and literacy.
- By working scientifically our children develop the skills to question, enquire, evaluate and conclude in their research and experiments.
- Science contributes to a child's intellectual development by equipping them with knowledge of the world around them and skills in which to enquire.
- It is important to promote an enjoyment of science by encouraging the children at Wren's Nest to find the results of their experiments as independently as possible, so they develop their investigative skills.
- To encourage our children to be ambitious for future career opportunities.
- To understand how science has changed lives to date and continues to. E.g. medication, waterproof clothing.
- Give opportunities and life chances in line with counterparts ~ many of our children don't have the opportunity to discuss scientific knowledge with adults - 'broken' families, young parents with a lack of scientific knowledge.
- To counter balance the parental knowledge deficit to science - in many cases, science isn't a priority at home.
- Understanding how to lead a safe and healthy lifestyle - smoking, additions.

How?

- Build on previous knowledge, encouraging and teaching to know more.
- Embed the children's scientific knowledge and skills by working scientifically across all year groups.
- Develop staff confidence in the teaching of science.
- Develop the children's confidence in science.
- Encourage children to ask questions by developing their skills of enquiry.
- Encourage children to ask simple questions and recognise that they can be answered in different ways.
- Children will be given the opportunity to make observations, use equipment and perform tests.
- Children will be able to use their observations and ideas to suggest answers to questions. Also, gather and record data to help in answering questions.
- Children will be encouraged to 'Work Scientifically' through questioning, Scientific Enquiry - observing changes, finding patterns, grouping and classifying, fair testing, drawing conclusions based on data and observations, using evidence to justify ideas and using scientific knowledge to explain findings.

What?

- Whole school science progression document to ensure lesson objectives and activities are relevant for that year group.
- Science leader monitoring - review of year group planning and assessments, book scrutinies and lesson 'drop ins' to assess areas for support.
- Support given for science planning identified from monitoring.
- Opportunities taken for cross-curricular science.
- Informal staff discussions - will inform subject leader of any extra resources needed.
- Appropriate resources available in school to support scientific enquiry.
- Science Week to promote enjoyment of science, sharing activities as a whole school.
- Trips and visits to give first-hand experience and build on prior knowledge (e.g. Natural History Museum, Roberts Street Environmental Zone, Slimbridge, Wren's Nest Nature Reserve, Jodrell Bank).